

Release notes for ENDF/B Development e-085_At_000
evaluation

ENDF
B-VII.dev

October 13, 2016

- fudge-4.0 Warnings:

1. Mislabelled emitted particle
Reading ENDF file: ../e-085_At_000.endf (Error # 0): ZAP messed up

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0
2. FIXME: Generic fudge unimplemented message
reaction label 1: e- + At + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data
3. FIXME: Generic fudge unimplemented message
reaction label 2: e- + At [excitation] / Product: e- (Error # 0): Generic unimp (c)

WARNING: Checking not yet implemented for energyLoss type data

- fudge-4.0 Errors:

1. Calculated and tabulated thresholds don't agree
reaction label 0: e- + At [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!
2. Calculated and tabulated thresholds don't agree
reaction label 1: e- + At + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!
3. Calculated and tabulated thresholds don't agree
reaction label 2: e- + At [excitation] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!
4. Calculated and tabulated thresholds don't agree
reaction label 3: e- + e- + At1s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 96068. eV!
5. Calculated and tabulated thresholds don't agree
reaction label 4: e- + e- + At2s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 17473. eV!
6. Calculated and tabulated thresholds don't agree
reaction label 5: e- + e- + At2p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 16840. eV!
7. Calculated and tabulated thresholds don't agree
reaction label 6: e- + e- + At2p3/2 / Cross section: (Error # 0): Threshold mismatch

- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 14215. eV!
8. Calculated and tabulated thresholds don't agree
reaction label 7: $e^- + e^- + At3s1/2$ / Cross section: (Error # 0): Threshold mismatch
- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4285.5 eV!
9. Calculated and tabulated thresholds don't agree
reaction label 8: $e^- + e^- + At3p1/2$ / Cross section: (Error # 0): Threshold mismatch
- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3991.8 eV!
10. Calculated and tabulated thresholds don't agree
reaction label 9: $e^- + e^- + At3p3/2$ / Cross section: (Error # 0): Threshold mismatch
- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3398.5 eV!
11. Calculated and tabulated thresholds don't agree
reaction label 10: $e^- + e^- + At3d3/2$ / Cross section: (Error # 0): Threshold mismatch
- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2911.4 eV!
12. Calculated and tabulated thresholds don't agree
reaction label 11: $e^- + e^- + At3d5/2$ / Cross section: (Error # 0): Threshold mismatch
- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2786.2 eV!
13. Calculated and tabulated thresholds don't agree
reaction label 12: $e^- + e^- + At4s1/2$ / Cross section: (Error # 0): Threshold mismatch
- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1021.4 eV!
14. Calculated and tabulated thresholds don't agree
reaction label 13: $e^- + e^- + At4p1/2$ / Cross section: (Error # 0): Threshold mismatch
- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 890.65 eV!
15. Calculated and tabulated thresholds don't agree
reaction label 14: $e^- + e^- + At4p3/2$ / Cross section: (Error # 0): Threshold mismatch
- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 741.71 eV!
16. Calculated and tabulated thresholds don't agree
reaction label 15: $e^- + e^- + At4d3/2$ / Cross section: (Error # 0): Threshold mismatch
- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 527.08 eV!
17. Calculated and tabulated thresholds don't agree
reaction label 16: $e^- + e^- + At4d5/2$ / Cross section: (Error # 0): Threshold mismatch
- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 499.28 eV!
18. Calculated and tabulated thresholds don't agree
reaction label 17: $e^- + e^- + At4f5/2$ / Cross section: (Error # 0): Threshold mismatch
- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 217.93 eV!

19. Calculated and tabulated thresholds don't agree
reaction label 18: $e^- + e^- + At4f7/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 211.2 eV!
20. Calculated and tabulated thresholds don't agree
reaction label 19: $e^- + e^- + At5s1/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 196.27 eV!
21. Calculated and tabulated thresholds don't agree
reaction label 20: $e^- + e^- + At5p1/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 148.78 eV!
22. Calculated and tabulated thresholds don't agree
reaction label 21: $e^- + e^- + At5p3/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 117.82 eV!
23. Calculated and tabulated thresholds don't agree
reaction label 22: $e^- + e^- + At5d3/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 49.2 eV!
24. Calculated and tabulated thresholds don't agree
reaction label 23: $e^- + e^- + At5d5/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 45.06 eV!
25. Calculated and tabulated thresholds don't agree
reaction label 24: $e^- + e^- + At6s1/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 23.01 eV!
26. Calculated and tabulated thresholds don't agree
reaction label 25: $e^- + e^- + At6p1/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 11.94 eV!
27. Calculated and tabulated thresholds don't agree
reaction label 26: $e^- + e^- + At6p3/2$ / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 8.539999999999999 eV!

• xsectplotter Warnings:

1. Mislabeled emitted particle
Error: ZAP messed up

stderr while processing crossSection

WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0
... [4 more lines]